



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification <sup>7</sup> :</b><br><b>H04N 3/32, 3/27</b>  | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 00/48390</b><br><b>(43) International Publication Date:</b> 17 August 2000 (17.08.00)   |
| <b>(21) International Application Number:</b> PCT/US00/02989<br><b>(22) International Filing Date:</b> 4 February 2000 (04.02.00)<br><b>(30) Priority Data:</b><br>60/119,278                      9 February 1999 (09.02.99)                      US<br><b>(71) Applicant (for all designated States except US):</b> THOMSON LICENSING S.A. [FR/FR]; 46, quai Alphonse Le Gallo, F-92648 Boulogne Cedex (FR).<br><b>(72) Inventors; and</b><br><b>(75) Inventors/Applicants (for US only):</b> ALLENDER, Jeffrey, Owen [US/US]; 860E 1000 North, Morristown, IN 46161 (US). SENDELWECK, Gene, Karl [US/US]; 5415 East 72nd Street, Indianapolis, IN 46250 (US).<br><b>(74) Agents:</b> TRIPOLI, Joseph, S. et al.; Thomson Multimedia Licensing Inc., P.O. Box 5312, Princeton, NJ 08540 (US). |           | <b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |
| <b>(54) Title:</b> CONTROL OF SCANNING VELOCITY MODULATION AT MULTIPLE SCANNING FREQUENCIES   |           |   |
| <pre> graph LR     Input[SELECTED VIDEO INPUT] --&gt; Split(( ))     Split --&gt; Diff[DIFFERENTIATOR 1]     Split --&gt; Det[SCANNING FREQ. DETECTION 3]     Diff --&gt; Amp[AMPLIFIER VARIABLE GAIN 2]     Det --&gt; Amp     Amp --&gt; Coil[SVM COIL]       </pre>  |           |   |
| <b>(57) Abstract</b><br><p>A method for controlling scan velocity modulation in a video display apparatus operable at a plurality of horizontal scanning frequencies. The method comprises the steps of, generating respective scanning velocity modulation signals from signals having a plurality of horizontal scanning frequencies and coupled for display by said apparatus, and, selectively controlling an amplitude of each respective scanning velocity modulation signal to a predetermined range of amplitudes.</p>  |           |   |